

**CORYNEBACTERIUM GLUTAMICUM GENES ENCODING
PHOSPHOENOLPYRUVATE: SUGAR PHOSPHOTRANSFERASE SYSTEM
PROTEINS**

5

Abstract of the Disclosure

Isolated nucleic acid molecules, designated PTS nucleic acid molecules, which
encode novel PTS proteins from *Corynebacterium glutamicum* are described. The
invention also provides antisense nucleic acid molecules, recombinant expression
10 vectors containing PTS nucleic acid molecules, and host cells into which the expression
vectors have been introduced. The invention still further provides isolated PTS proteins,
mutated PTS proteins, fusion proteins, antigenic peptides and methods for the
improvement of production of a desired compound from *C. glutamicum* based on
genetic engineering of PTS genes in this organism.

15

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